

ABSTRACT OF THE DISCLOSURE

A portable high-frequency chest wall oscillation (HFCWO) apparatus for the purposes of airway lung clearance and ventilation includes a circumferential chest band which is placed around a person's chest and a drive which is connected to the chest band for cyclically varying the circumference of the chest band to apply an oscillating compressive force to the chest of the person. The apparatus maintains the oscillating compressive force applied by the chest band to the chest of the person at a substantially constant level such that the person is able to continue chest expansions and contractions during a breathing cycle.